Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of calibrating video, comprising:

falibrating at least one of pixel offset and pixel gain of a video signal via digital hardware;

calibrating for pixel gain by covering a video channel with an automatic gain control

tab; and

a video signal inputted to a video channel other than the video channel covered with the automatic gain control tab.

- 2. (Original) The method according to claim 1, further including calibrating for pixel offset by setting a range for pixel offset calibration, adjusting an uncalibrated video signal to be within the range, and providing an offset level setpoint.
- 3. (Original) The method according to claim 2, further including calibrating for pixel offset by subtracting a current state of offset of a video signal from the offset level setpoint to provide an error value.
- 4. (Original) The method according to claim 3, further including calibrating for pixel offset by applying a variable gain factor to the error value to provide a variable gain/error value.
- 5. (Original) The method according to claim 4, wherein the variable gain factor is fixed for different trip points.
- 6. (Original) The method according to claim 4, further including calibrating for pixel offset by adding the variable gain/error value to a pixel offset value stored in a storage device to provide a specified pixel offset value.



- 7. (Original) The method according to claim 6, further including calibrating for pixel offset by dividing the specified pixel offset value by 16.
- 8. (Original) The method according to claim 7, further including calibrating for pixel offset by adding the divided value to the video signal adjusted to be within the range.
- 9. (Original) The method according to claim 1, further including calibrating for pixel gain by setting a range for pixel gain calibration, adjusting an uncalibrated video signal to be within the range, and providing for continuing compensation of changes in video intensity.

10. (Canceled)

- 11. (Currently Amended) The method according to claim 109, further including calibrating for pixel gain by subtracting a current state of gain of a video signal from an automatic gain control tab setpoint to provide an error value.
- 12. (Currently Amended) The method according to claim 11, further including calibrating for pixel gain by inputting the error value into an-the integrator to apply the error value to a video signal over a period of time.
- 13. (Currently Amended) The method according to claim 12, further including calibrating for pixel gain by multiplying a the video signal output from the integrator with a video signal inputted to the video channel covered with the automatic gain control tab.
 - 14. (Canceled)
- 15. (Currently Amended) The method according to claim 141, further including calibrating for pixel gain by subtracting a current state of gain of a video signal from a white level setpoint to provide an error value.
- 16. (Original) The method according to claim 15, further including calibrating for pixel gain by applying a variable gain factor to the error value to provide a variable gain/error value.



- 17. (Original) The method according to claim 16, wherein the variable gain factor is fixed for different trip points.
- 18. (Original) The method according to claim 16, further including calibrating for pixel gain by adding the variable gain/error value to a pixel gain value stored in a storage device, to provide a specified pixel gain value.
- 19. (Original) The method according to claim 18, further including calibrating for pixel gain by dividing the specified pixel gain value by 16.
- 20. (Original) The method according to claim 19, further including calibrating for pixel gain by multiplying the divided value to the video signal adjusted to be within the range.
- 21. (Currently Amended) An image sensor for use with a document scanner, comprising:

video signal;

an automatic gain control tab that covers a video channel; and
an integrator, wherein pixel gain is calibrated for by multiplying a video signal

output from the integrator with a video signal inputted to a video channel other than the video

channel covered with the automatic gain control tab.

- 22. (Original) The image sensor according to claim 21, further including a device that calibrates for pixel offset by setting a range for pixel offset calibration, adjusting an uncalibrated video signal to be within the range, and providing an offset level setpoint.
- 23. (Original) The sensor according to claim 21, further including a device that calibrates for pixel gain by setting a range for pixel gain calibration, adjusting an uncalibrated video signal to be within the range, and providing for continuing compensation of changes in video intensity.

